Systems-on-Chips send audio, video from multiple sources to multiple displays

STMicroelectronics added the STDP43 series of products to its innovative DisplayPort portfolio. These Systems-on-Chips (SoCs) are the world's first high-speed active-protocol bi-directional media-routing devices that manage audio and video data from various sources and send this data to multiple displays. The devices support DisplayPort 1.2 and HDMI 1.4, the latest versions of the two most common digital-display interface technologies used in computer and consumer electronics. The STDP43 SoCs are catalytic in the rapidly expanding markets for next-generation digital signage, universal docking stations and video hubs required by the new generation of notebooks and PCs based on the latest Intel and AMD CPUs that support the multi-stream features of DisplayPort 1.2.

The STDP43 series offers powerful routing logic for managing today's complex display options, such as in data centers, video-walls, and control centers, where content sharing to multiple displays is a critical requirement. Using dual-mode receivers and transmitters in various configurations, ST's new SoCs can split, combine, route and convert DisplayPort 1.2 and HDMI 1.4 signals into full HD on multiple daisy-chained displays with color depth up to 48 bits per pixel, or into 4Kx2K (4096x2160p = 4 times Full HD) on a single display.

ST's STDP43 series devices – the Dual-Mode DisplayPort 1.2 splitter (STDP4320) and the Dual-Mode DisplayPort 1.2 concentrator (STDP4328) - are sampling now, with mass production scheduled for Q2 2013.

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